## Skill Based Elective II (Semester V)

**Ruby on Rails (Sub Code:16RSBE2:2)**

**Unit I**

Welcome to Ruby: Creating a First Web Application-Getting started with Ruby- Checking the Ruby Documentation-Working with Numbers in Ruby-Working with Strings in Ruby-Storing Data in Variables-Creating Constants- Interpolating Variables in Double Quoted Strings-Reading Text on the Command Line-Creating Symbols in Ruby-Working with Operators-Handling Operator Precedence.

## Unit II

Conditionals, Loops, Methods and Blocks: Its All about Making choices: the if Statement-Using the case Statement-Using Loops-Creating and Calling a Method.

## Unit III

Classes and Objects: All about Encapsulation-Creating a Class-Creating an Object- Basing one Class on Another-Understanding Ruby's Object Access- Overriding Methods-Creating Class Variables-Creating Class Methods.

## Unit IV

Welcome to Rails: Putting Ruby on Rails-Introducing Model View Controller Architecture-Giving the view Something to do-Mixing Ruby Code and HTML inside the View-Passing Data from an Action to a View-Escaping Sensitive Text- Adding a Second Action.

## Unit V

Connecting to Databases: Creating a Data-Aware Rails Application-Creating a Database-Running the store Application-Adding Another Record-Beautifying a Display-Working with Databases: Displaying items to the customer-Creating a Shopping Cart.

## Text Book:

1.Beginning Ruby on Rails by Stephen Holzner, Wiley India Publications,2007.

## Reference Book:

1.Ruby on Rails: Up and Running by Bruce A. Tate, Curt Hibbs, O'Reilly Media Publications,2006.

## Skill Based Elective III (Semester V)

## Web Services (Sub Code:16RSBE2:2)

**Unit I**

Introduction: Services-Web Services - Web Services Application Opportunities- Emergence of Web Service: Server-side Architecture Progression-Client-Side Architecture Progression-Service Oriented Architecture and Web Services.

## Unit II

Web Services Application Scenario: Web Services Hype and the Industry-Web Services and the Industry Acceptance-Extensible Markup Language: History of Markup Languages-What is XML ?.

## Unit III

Validation of XML Data-Advanced XML-Document Constraining-Simple Object Access Protocol: Background-What is SOAP? - SOAP Interaction-SOAP Modelling - SOAP Encoding-SOAP Binding.

## Unit IV

Web Services Description Language: What is WSDL-Web Service Invocation and WSDL-Web Services Description Details-Service Description through WSDL Registries: Universal Description, Discovery and Integration: What is UDDI- UDDI Nomenclature.

## Unit V

Core UDDI-Service Publication-Service Discovery-Remote Procedure Call and Messaging: SynchronousWeb Services-Asynchronous Web Services - Remote Procedur Call or Messaging.

## Text Book

1. Web Services: An Introduction by B.V. Kumar and S.V. Subrahmanya, Tata McGraw Hill Publications,2007.

## Reference Books

1. Sandeep Chatterjee, James Webber, "Developing Enterprise Web Services", Pearson Education, 2004.
2. Frank. P. Coyle, XML, Web Services And The Data Revolution, Pearson Education, 2002.